CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No: CTCE/BBMP/BAK/INW.No-1976/SOIL/2017-18

Date: 31.08.2016

TEST REPORT ON HEAVY COMPACTION FOR SOIL

* Customer	:	**Asst. Executive Engineer,** Lakes, BBMP, Bangalore.
* Agency	:	**Mr. Balakrishna Arun Kumar,** #316,25th cross, Banashankari 2nd Stage, Bangalore-560070.
* Name of Work	:	Development of Doddabommasandra Lake Phase-2, BBMP, Bangalore.
* Reference	:	AEE/Lakes/PR/97/2016-17 Dated: 22.08.2016
* Sample ID	:	Soil-Ring Bund
Sample Received on	:	29.08.2016
Date of Testing	:	31.08.2016

The results of the test Conducted on the Soil sample is as follows

Sl. No.	Name of Test	Test as per IS Code	Test Results
1	Determination of water Content-Dry Density Relation using heavy Compaction	IS 2720 (Part 8)-1983 (RA-2010)	MDD = 2.02 g/cc OMC = 12.10 %

*Information is furnished by the Customer/Representative.

MDD = Maximum Dry Density in g/cc
OMC = Optimum Moisture Content in percentage

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Basaveshwaranagar, Bangalore-560 079.

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Job No.: CTCE/BBMP/BAK/INW.No-1976/Soil/2016-17 04.09.2016

TEST REPORT ON DRY DENSITY OF SOIL IN PLACE BY THE CORE - CUTTER METHOD

* Customer	:	Asst. Executive Engineer, Lakes, BBMP, Bangalore.
* Agency	:	Mr. Balakrishna Arun Kumar, #316,25th cross, Banashankari 2nd Stage, Bangalore-560070.
* Name of work	:	Development of Doddabommasandra Lake Phase-2, BBMP, Bangalore.
* Reference	:	AEE/Lakes/PR/97/2016-17 Dated: 22.08.2016
* Sample ID	:	Soil
Technical Reference	:	IS : 2720 - (Part 29) 1974 (RA-2010)
Date of Test	:	03.09.2016

Max.Dry Density g/cc	:	2.02
Optium Moisture Content (%)	:	12.10

DETERMINATION OF WET DENSITY	
Location	Ring Bund 1.5m depth
Chainage	150m
Wt of empty Cylinder in grams	875
Cylinder + Wet Soil in grams	2928
Volume of the Cylinder in Cm^3	1020.50
Insitu Bulk density Wet excavated soil Y=w/v	2.01
Moisture Content (%)	3.59
DETERMINATION OF DRY DENSITY	
Field dry Density (g/cc)	1.94
Field compaction achieved (%)	96.14
Required Compaction (%)	95.0

*Information is furnished by the Customer/Representative

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e-mail : vishwanath.ja@civiltechconsultants.com / info@civiltechconsultants

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* Reference	:	AEE/Lakes/PR/97/2016-17 Dated: 22.08.2016
* Sample ID	:	Soil
Technical Reference	:	IS : 2720 - (Part 29) 1974 (RA-2010)
Date of Test	:	03.09.2016

Max.Dry Density g/cc	:	2.02
Optium Moisture Content (%)	:	12.10

DETERMINATION OF WET DENSITY	
Location	Ring Bund 1.5m depth
Chainage	300m
Wt of empty Cylinder in grams	926
Cylinder + Wet Soil in grams	2965
Volume of the Cylinder in Cm^3	1020.50
Insitu Bulk density Wet excavated soil Y=w/v	2.00
Moisture Content (%)	2.28
DETERMINATION OF DRY DENSITY	
Field dry Density (g/cc)	1.95
Field compaction achieved (%)	96.71
Required Compaction (%)	95.0

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Job No.: CTCE/BBMP/BAK/INW.No-1976/Soil/2016-17 04.09.2016

TEST REPORT ON DRY DENSITY OF SOIL IN PLACE BY THE CORE - CUTTER METHOD

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* Agency	:	**Mr. Balakrishna Arun Kumar,** #316,25th cross, Banashankari 2nd Stage, Bangalore-560070.
* Name of work	:	Development of Doddabommasandra Lake Phase-2, BBMP, Bangalore.
* Reference	:	AEE/Lakes/PR/97/2016-17 Dated: 22.08.2016
* Sample ID	:	Soil
Technical Reference	:	IS : 2720 - (Part 29) 1974 (RA-2010)
Date of Test	:	03.09.2016

Max.Dry Density g/cc	:	2.02
Optium Moisture Content (%)	:	12.10

DETERMINATION OF WET DENSITY	
Location	Ring Bund 1.5m depth
Chainage	450m
Wt of empty Cylinder in grams	970
Cylinder + Wet Soil in grams	2996
Volume of the Cylinder in Cm^3	1020.50
Insitu Bulk density Wet excavated soil Y=w/v	1.99
Moisture Content (%)	2.54
DETERMINATION OF DRY DENSITY	
Field dry Density (g/cc)	1.94
Field compaction achieved (%)	95.85
Required Compaction (%)	95.0

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* Sample ID	:	Soil
Technical Reference	:	IS : 2720 - (Part 29) 1974 (RA-2010)
Date of Test	:	03.09.2016

Max.Dry Density g/cc	:	2.02
Optium Moisture Content (%)	:	12.10

DETERMINATION OF WET DENSITY	
Location	Ring Bund 1.5m depth
Chainage	600m
Wt of empty Cylinder in grams	912
Cylinder + Wet Soil in grams	2952
Volume of the Cylinder in Cm^3	1020.50
Insitu Bulk density Wet excavated soil Y=w/v	2.00
Moisture Content (%)	2.98
DETERMINATION OF DRY DENSITY	
Field dry Density (g/cc)	1.94
Field compaction achieved (%)	96.10
Required Compaction (%)	95.0

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Technical Reference	:	IS : 2720 - (Part 29) 1974 (RA-2010)
Date of Test	:	03.09.2016

Max.Dry Density g/cc	:	2.02
Optium Moisture Content (%)	:	12.10

DETERMINATION OF WET DENSITY	
Location	Ring Bund 3m depth
Chainage	150m
Wt of empty Cylinder in grams	898
Cylinder + Wet Soil in grams	2921
Volume of the Cylinder in Cm^3	1020.50
Insitu Bulk density Wet excavated soil Y=w/v	1.98
Moisture Content (%)	3.06
DETERMINATION OF DRY DENSITY	
Field dry Density (g/cc)	1.92
Field compaction achieved (%)	95.22
Required Compaction (%)	95.0

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Date of Test	:	03.09.2016

Max.Dry Density g/cc	:	2.02
Optium Moisture Content (%)	:	12.10

DETERMINATION OF WET DENSITY	
Location	Ring Bund 3m depth
Chainage	300m
Wt of empty Cylinder in grams	872
Cylinder + Wet Soil in grams	2918
Volume of the Cylinder in Cm^3	1020.50
Insitu Bulk density Wet excavated soil Y=w/v	2.00
Moisture Content (%)	4.15
DETERMINATION OF DRY DENSITY	
Field dry Density (g/cc)	1.93
Field compaction achieved (%)	95.30
Required Compaction (%)	95.0

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